

C O N T E N T S, Parts A and B (Volumes 69 and 70)

	Page
Preface	
A E Lally Intercomparison Exercise on the Determination of Plutonium in Biological Material.	1 -12
B R Harvey & A K Young Determination of Natural Radionuclides in a Coastal Marine Sediment - An Analysts' Intercomparison Exercise.	13 - 28
P De Felice, R F Laitano & S Piermattei. Activity Measurements of Sr-90 and Cs-137 in Spiked Solutions of Milk. Results of a National Intercomparison in Italy.	29 - 41
M S Feiner & C G Sanderson Spiked Natural Matrix Materials as Quality Assessment Samples.	43 - 59
E Holm , J Rioseco, S Ballestra & F Wilmet Beta-spectrometry with Surface Barrier Detectors.	61 - 77
F Shiraishi, Y Takami & T Hashimoto Analysis of Alpha & Beta Activities in Environmental Samples Using Large Area SI Surface Barrier Detectors.	79 - 91
P Thompson The Reduction of Germanium Gamma Spectrometer Backgrounds in a Radiochemistry Section at AWRE.	93 - 105
W G Winn, W W Bowman & A L Boni Ultra-clean Underground Counting Facility for Low-level Environmental Samples.	107 - 144
D Brajnik & M Korun Levels of ^{210}Pb and Other Low Energy Photon Emitters Studied by a Planar Ge (HP) Spectrometer.	145 - 155
P G Appleby, F Oldfield, N Richardson, S R Higgitt, & P J Nolan ^{210}Pb Dating of Lake Sediments and Ombrotrophic Peats by Gamma Assay.	157 - 177

	Page
G Rosner Variation of Long-Lived Radon Daughters in Precipitation	179 - 190
F El Daoushy & R Garcia-Tenorio Speciation of Pb-210/Po-210 in Aquatic Systems and their Deposits.	191 - 209
R Mattsson 210 Pb and 222 Rn as Guides in adjudicating SO ₂ ²⁻ and SO ₂ Air Concentrations.	211 - 224
<u>POSTER SESSION</u>	
R Garcia-Tenorio & M Garcia-Leon 226 Ra Determination by Electrodeposition.	225 - 238
P J Burton & L P Yarnold Remobilisation of Actinides from Intertidal Sediments of the Ravensglass Estuary.	239 - 260
B T Wilkins & N Green Factors Affecting the Uptake of Radionuclides by Cattle Grazing on Pasture Reclaimed From the Sea.	261 - 268
H N Erten, S Aksoyoglu & H Göktürk Sorption/Desorption of Cs on Clay and Soil Fractions from various regions of Turkey.	269 - 296
J Bell & T H Bates Distribution Coefficients of Radionuclides between Soils and Groundwaters and their Dependence on Various Test Parameters.	297 - 317
B G Brodda Leachability of Technetium from Concrete.	319 - 345
M Skalberg, L Eliasson, G Skarnemark, B Torstenfelt, R Forsyth, A Holmer, B Winqvist & B Allard Diffusion of Radionuclides from spent Oxide Fuel into Compacted Bentonite.	347 - 365
N Green & N J Dodd The uptake of radionuclides from Inadvertent Consumption of Soil by Grazing Animals.	367 - 377

	Page
H Surbeck & H Voelkel Radionuclide Content vs. Grain Size in Soil Samples.	379 - 389
Author Index	391
Subject Index	392

CONTENTS, Part B

	Page
F R Livens & M S Baxter Particle Size and Radionuclide Levels in some West Cumbrian Soils.	1 - 17
A Van der Wijk, W G Mook & M Ivanovich Correction for Environmental Th-230 in U/Th Disequilibrium Dating of Peat.	19 - 40
Y Liritzis & S Danali-Cotsaki Beta Dose Rates Derived from Gamma Spectroscopy and Low Beta Anticoincident System of Various Environmental Materials, Mainly of Archaeological Origin.	41 - 54
I Kobal, M Mihailovic & P Stegnar Atmospheric Radon Concentrations in Dwellings in Slovenia, Yugoslavia.	55 - 68
C Papastefanou & E A Bondietti Radon Daughter Aerosols in Ambient Air.	69 - 82
D C Lauria & J M Godoy A Sequential Analytical Method for the Determination of U-238, Th-232, Th-230, Th-228, Ra-228 and Ra-226 in Environmental Samples.	83 - 99
D C Bogen, P W Krey, H L Volchok, J Halverson D M Robertson, J Feldstein & G Calderon Threat to the New York City Drinking Water Supply - Plutonium.	101 - 118
A J Aldridge & S T Napier The Routine Determination of Principal Gamma Emitting Radionuclides in Muds and Silts from the Ribble Estuary.	119 - 129
C Hurtgen, G Koch, D Van der Ben & S Bonotto The Determination of Technetium-99 in the Brown Marine Alga <u>Fucus Spiralis</u> Collected Along the Belgian Coast.	131 - 149
A Berzero, S Meloni, W Martinotti, G Queirazza & P A Borroni Methodological Approach to the Evaluation of Diffusion Coefficients of Radionuclides in Marine Coastal Sediments.	151 - 177

	Page
A Belfiore, A L Moro & G Panciatici Quantitative Determination of Radionuclides Deposited on Surfaces of Contaminated Environmental Materials.	179 - 185
N P Singh & M E Wrenn Determinations of Actinides in Biological and Environmental Samples.	187 - 203
C H Collins, G S Melo, M A Basso, C Archundia & K E Collins Reduction of $^{51}\text{Cr(VI)}$ on Cation Exchange Resins.	205 - 214
P J P Bonnett, P G Appleby & F Oldfield Radionuclides in Coastal and Estuarine Sediments from Wirral and Lancashire.	215 - 236
R G C Gallop, W N Lawrenson, J F Lockyer & B B Warren Radionuclide Levels in the River Sediment near to a Treated Effluent Outfall.	237 - 251
<u>POSTER SESSION</u>	
M T Crespo, M L Acena & E Garcia-Torano Adsorption of Some Actinide Elements on MnO_2	253 - 263
R M Brown, S E Long & C J Pickford The Measurement of Long Lived Radionuclides by Non-radiometric Methods.	265 - 274
S M Jerome An improved method for the Analysis of Promethium-147	275 - 298
M Kwadow & C Chevalier Occupational Exposure to Radionuclides in French Nuclear Power Plants : Five Years Excretion Monitoring Results.	299 - 319
D S Popplewell, G J Ham, N J Dodd & S D Shuttler Plutonium and Cs-137 in Autopsy Tissues in Great Britain.	321 - 334

	Page
A R Dalheimer, A Kaul and M D Said Analysis of Tissue Samples Containing Colloidal Thorium Dioxide (Thorotrast) or Zirconium Dioxide (Zirconotrast): Radiochemical Preparation and Alpha Spectrometry.	335 - 353
R S Grieve and T H Bates Determination of Plutonium in Urine by Radiochemical Separation and use of Etched CR-39 Track Analysis.	355 - 371
G Barci, J Dalmasso & G Ardisson Chernobyl Fallout Measurements in some Mediterranean Biotas	373 - 387
C Ronneau & P Smets Neutron Activation Analysis to Trace Deposition from a non-Ferrous Metallurgical Plant.	389 - 399
E Hedrich & F Grass Determination of Aluminium and some Main and Trace Elements in Needles of Austrian Pine Trees	401 - 413
O A Na Lamphun, S Moebius & C Keller Neutron Activation Analysis of Natural Water Samples Using Cf-252 Sources.	415 - 431
E Henrich Chernobyl - Its Impact on Austria	433 - 454
Author Index	455
Subject Index	456 - 457

